

at go or rocedure. To the color add & Jes. of caustic and rogm. of hydrosulphite. Meat the solution to 50°C., however, before adding hyfrosulphite. To the dye bath add & cc. of caustic and a sufficient amount of hydrosulphite to expel all oxygen present. Add required color to the bath and test for alkalinity and the presence of hydrosulphite. Dye 5 mins. cold then raise the temperature of the bath to 50°C. after which allow the bath to slowly cool. Allow the cloth to oxidize in the air then immerse it in hot chrome and boiling soap. NOTE: \*The cloth should be wet out in water containing about 2 ccs. of soluble oil. Trocesses, 1 gt. of 760 tw. Im. Color Coustic contains
4 cas 76° tw. Caustic, 2½ 165. of Coustic,
1125mo. Rykopon.

Reduce at 1200+ & dyl at 120°F. No Salt, IW. Igm. Color. 200, 76°tw. Canatio. 1.3 gms. Lykopon. Reduce at 120°F & dye at 110°F. May 3 % & 10% dyings use 6707 17 % Macl. IK. 1gm. Colos. 2000. 760 Tw. Courtis. 12 gms. Ry kopon. 90-Reduce at 1807 & dye at 1805. Than 3 % 10%, dyeings use 12 / 4 7 24 % No Cl.

Vat Colors Standard Dyeings

6/28/26 Indanthrene Grey GK Paste.
From General Dyestuff. Price: 4121.

Color 3% Dyed 35 mins.

Color 10% Uyed 35 mins,

1/1/26 Indanthrene Khaki 66 (Paste).

From General Dyestoff. Price: -1143

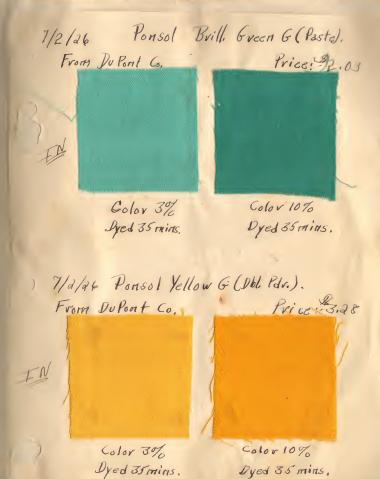
Color 30% Dyed 35 mins,

Color 10% Dyed 35 mins.

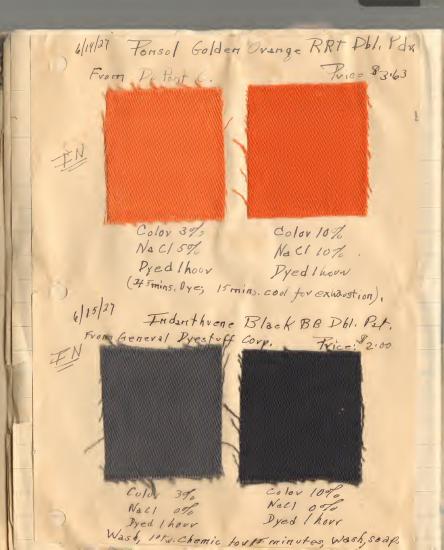
7/1/26 Ponsol Blue RS. (Paste). From Du Pont Co. . Price: 1,38 Color 3% Color 15% Dyed 35 mins. Dyed 35-mins. 7/1/26 Ponsol Blue GCD (Pol. Pdr.). From DuPont Co. Price: \$ 1.18

> Color 30% Color 100% Dyed 35 mins, Lyed 36 mins.





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7/8/27, 1/8/27, Indonthuene Ked Brown R Kst. IN - Hydron Pink FB Tst. IK. from General Lyestoff Carp. Thica. 1 From General Prestuff Corp. frice: color 10% Colov 10% Color 3% Color 3% Nac1 120% Nac1 24% Nacl 60% NaCI 24% Dyed Thour Tred I hour. Died I hour Pred Ihour. 7/8/27. Indanthrene Pink B Jbl. Fet. IK. Indanthvene Violet B Vdv. From Geneval Drestuff Corp. Price: 1418 Twen General Brestuff Corp. Trice; 47,41 Colov 10% Color Na 6/ 24 5 ·Color 370 Color 108 Nac1 1 Dyed / hour Rysd Thouse Aved Thour Lyed / Hora

7/12/27. Valar. Indonthvene Covinth AK Pst. IK Indonthuene Vark Blue BOA Pdr. IN From General Drost off Cove. Price: 48 From General Drestuff Corp. Trice: 1,70 Color 10% Nac1 24% color 3% Color 3% Color 10% Nac1 12% Ryed I hour Dyed I hour Pyed I hour Dyed Chour 7/12/27. Indanthrene Dark Blue BGO Pdv. IN DN Yst. IN. 1/1/17. " tonsol Green From General Duestoff Coin Price: \$6,80 trice; \$1,35 Even Lutont Co. " Color 30 Color 10% Color 100 Color 3% Dyed I hours Fred I hour. Bed I here De de de Maria

) yed / hour

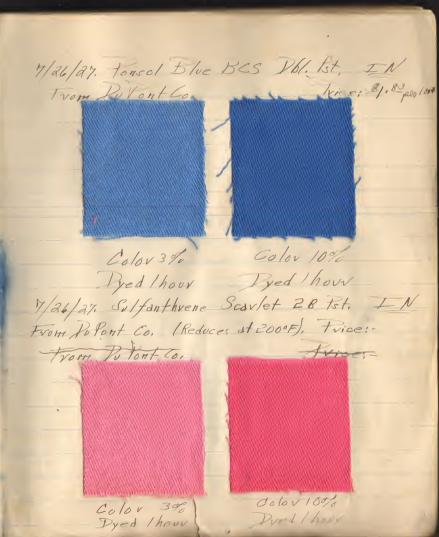
Red / home



1/14/27. Sulfanthrene Pink FF Fst. IN. From Dufont Co. Frice; Color 3% Color 10% Byed I hour, Syed Ihour, 7/25/27. Cipa Brown & Dbl. Pet, IN From Ciba 60, Trice:-Color Color 1000 Dyed I hove install hope



7/25/27, Anthrene Black BB Pst. IN From Newport Chemical Works, Price:-Color 3% Color 10% Dyed I hour Dyed I hour. 7/25/27, Duranthrene Red A.F.F. Dbl. Pst. IX From Lyestoff Corporation, Price: Ad.50 Color 10% Roch 12 % Lyod I hour Dyed I hour,



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(Arthra Kellow GC). 7/26/27. Anthrene Flavone GC Pst. IN From NewPort Chemical Works. Price: Color 3% Color 10% Ryed I hour Ryed I hour 7/26/27. Anthra Green B Dbl. Ist. IN From General Prestoff Corr. Bice, Sz. 00 Golov 30% Folov 10% Hyed I hour Lyed Ilour

7/26/27, Indanthuens Blue BCD Vol. Pst. IN. Trop Geneval Directuff Com trie: 21.82. Color 10% Color 3% Ryed I hoor Ryed Thour 7/26/27. Jonsol Black B Conc. Pdr. FN Trice: - 3.53 From Rutont Co. Color 10% Color 3% Dyed I hour Hed Thour

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7/26/27. Hydron Ovarige & Ist. 7 W. 7/86/27, Indanthuene Ovange 6 RTK Pdv. It. From General Dyestoff Coup, Reduces at 2000Fl. Price: -1.80 From Ecneval Drestoff Corp. Prices-6,2 Naci 120% 2010 396 Nac/60/2 COLON 3% COLON 10% Nacl 12% Nacl 24% Pyed I hour Ryed I hour Lypd Thoor Tyed Thour 1/26/27, Indonthuene Blue 36T Pdv. IN 7/26/27, Inday threne Yellow RK Pst. IK. From General Derstoff Corp. Trice: 47.19 From General Drestuff Corp. Rice: 2.60 Color 10% Na G/ 291% Rolov 370 Nacl 12 Color 10% Color 3% Fred / hour Fred / hour By of Goor. Jag d I hour

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Malfall Cibarone Olive B Pdr. IN.
From Eneral Prestoff care. Friac: 92.50 7/26/27. Indanthrene Brown ATPst. IW. From General Dyestoff Corp. Dvice: Color 10% Noc1 12% Nac/ 6% Holox 396 Color 10% Hyed I hour Fred Lhour Pyed / hour Dyed I hour 7/28/27 Indanthvene Red Violet RAKP 31, 1/36/27 Cibarone Brown BER Pdv. IW. Price: \$3.88 FX From Geraval Restoff Corp. Francisco Co. Color 3% Color 1000 Calor 10 of Color 3% Na C/ 12% Na C1 6,0 Nac1 10% Dyed I BOUN Dyed hours Dyel I hour Dyed / hour

7/28/27. Hydron Blue 6 30% lst. IN. 7/28/37. Indanthuene Yellow 3RT Dbl. Bt. IN From General Duestiff Coup. Trice 319 From Leneval Prestoff Cove Price:-Colov 3% Color 10% Color 10% Color 3% Dyed / hour. Dyed / hour Lyed / hour Syed hour 7/28/27, Indanthuene Red Violet RRK Pst, IK 8/31/27. Indanthrene Dark Blue BO Fot. IN Troin General Prestoff Corp. Price: 2.65 From General Dyestoff. Trice - 19070 COlov 10% Color 3% Color 100%. Na 6/ 24% Color 5% Nac/ has Dyed I hoov Lyed I hour. Tyed I hour. Ayed I hour

Dyed at 1100F. 8/31/27. Indonthuene Brown Fire fat. FW. 8/31/27. Indanthuene lauk Blue BGE, Pdv. EK. From General Pyesty Lorp, Price: From General Exactoff love. Dice! Olov 3% Colov 10% - Naci 12% Dred Ihour Dyed Ihour. Nice 24 of Color 3% Naci 12% Tyed Ihour 8/31/27. Fridaythrene Blue RS Bt, IN. Aftertrested with Indophor A From General Drestoff Larp. Bice: 1,30 3% 10% In dophor A-20% Fridophov A - 10% 20 minutes at boil. 20 minutes at boil. Golov 3% Colov 1 0% Pyed lhour Dyed Thour.

4/27/28.

Developed 4/36/28. with sodium parbordte 4 soop. IN Cibo Blue 26 Pdv. 1.5% Perelopedwith 4/26/25. sodium perbordto 4 soap. IN Helindone Red 3B &t. 15% 7/28. air oxidized 4 sooped. IK Indonthuene Grey at Pot. 15%

#/27/28.

# Helindone Breen & Pst. 30%

4 sod pedi

Hir oxidized

Air oxidized

Y sosped.

IN Indonthvenz Eveen BB Bs. 1296

IN Cibe Blue 2B Pdr. 2%

Tubine Colors (For Nitro-cellelose (Tibine Silk)) Aged for 34 of an hour at 1850t. in a 196 soluble oil both and salted out after 15 minutes of Lycing. Tubize Fast Red BF. 6/21/28, Dzedontulize silkdotton union serge. Color - 14 % Nacl - 2.5 % Color - 12% Nacl - 3% Color-17 NaCI-10% Na 01-20% Color - 2%

Tubize Fast Red SB. 6/21/28.

Colox - 14 % Nac/ -2.5%

Colov-1/2 % NaC1-5%

Color-17/2 NaC1-102

Color-2% Noc1-20%

Tubize tast Bordeaux & 6/21/25.

Color - 149 Naclais &

Colox - 1276 Nac/-598

Calex-19, NaC1-10%

Colov-2% Nac1-20%

Tubize Fast Ovange SE. 6/21/28

Color - 1490 Noc1-2.5%

Color- 12% Noc1-5%

Color-1% Nact 10%

Color-27 Nacl-20%

Vat Colors on Silk (Red). Complination Shades.

> Air oxidized 4 50 aped.

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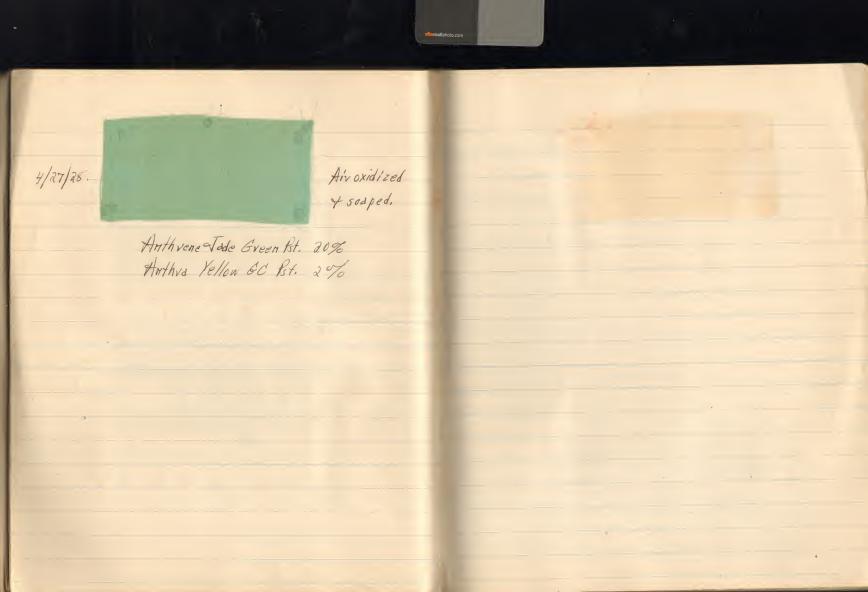
4/27/28.

Pyed IN.

Anthrene Tade Green Pst. 30% Anthra Yellow GC Bt. 20%

4/27/28,

Anthrene Jade Green 1st. 20%.
Anthre Yellow GC 1st. 10%



Staining Effect of Direct Colors on Celanose &

	Color	Celanese	Immunized Cotton,
r	Planol F. Red FGM	Stains considerably	
	Solahtine Red 884N	Poes not stain.	Voes not stain.
	Erie F. Scarlet 48 A	Stains slightly.	Stains slightly.
	Benzo F. Red SBLN	Poesnot stain,	Stains considerably.
	Evic Pink 28	8 <sub>1</sub> 82 81	Stains slightly.
	Benzo F. Bordedux 6BL	n 16 4	,,
	Chlorazol F. Orange AG	Stains slightly.	
	Benzo F. Ovange WS	,, ,,	" "
	Diamine F. Ovange ER	" "	,
	Pyrazol Ovange &	Stains considerably.	Stains Considerably
	Chlorazol F. Ovange &	stains very badly.	Stains very bodly.
	Pivoc + F. Yellow NN	Stains slightly.	stains slightly.
	Chrysophenine 3x Foot tom ine Yellow CH Chloromine F. lellow FF Chlorotine F. Yellow 464	Stal ns , Stains Stightly Stains Considerably	78 7 7
	livect F. Yellow 56 Conc.  Frie Yellow Y Chlorentinet Green Bh.	Poes not stain, stains very, Very sligh poes not Stain	Poes not stain.
	Brill Benzo Green B.	Stains slightly,	Stains slightly.

moo.coonq#######

Color Celanese Immunized Cotton Pirect Green BG Stains badly . stains padly. Pirect Blue RW stains very bodly. Stains very badly. Pivect F. Blueff Pont. Piszo Blue OR Jisminogéne Sky Blue N Voes not stain. Poes not stain. 11 11 11 Virect Sky Blue FF Stains slightly. Stains slightly. Does not Stain Benzof. Blue 46LD Fontamine F. Alve 8Gh Chlorantine F. Violet 4BL /1 h Chlorazol Brown LF Renzo F. Brown 36L Stains badly, Stains badly. Diphenyl Brown BBN Stains slightly. Stains slightly. Chlorantine F. Grey RLN Does not stain. Poes not stdin. Direct Black AW stains slightly. Stains slightly \_ // // // // // Didzine Black # Ex. Yellow element stains. Direct F. Black B Evic F. Black FB Yellow element stains very bodly. 2 less son in the

Staining Effect of Direct Colors on Real Silk. on Silk. Color Erie F. Scarlet 88A. Stains very very slightly. Piphenyl F. Scarlet 4BA. Stains very slightly. Stains about 5% of cotton depth Benzo F. Red 8BLN. Chlorantine 8. Red 5.BL .. Chlordzol F. Orange G. lyes as heavy as on cotton. You Famine Ovanges. Stains about 5% of cotton depth. Vidmine Orange ER. Poes not stain silk. Stains about 30% of cotton depth. Evie Ovange Y. Evie Yellow Y. Pyes about 3 times as heavy lds on cotton. Vontamine Yellow SX. Poes not stain silk, Chlovantiae P. Yellow 46h. Vyes as heavy as on cotton. Pontamine Yellow CH. Pyes about 50% of cotton depth. 4 11 5% 11 11 Viveet Green B. Poes not stain silk. Benzo F. Blue 46hD. po 12 1. 14 Portamine F. Blue 86h. ds 61 11 13 Vivect Sky Blue 6 BG. H H H 4 Nagara Blue dB.

Color On Silk, Vivect F. BlackB. Stains very slightly Nyanza F. Black FOR. " " " " Pontamine Black EBN. Stains about 5% as heavy as catton Pluto Black SV. Stains slightly. Pontitione F. Bleck LN. Amanil Brown M. Stains about 5% of cotton depla Youtamine Catecho GN. " 30% " " 11 1 50% h 11 11 Frie F. Brown GR. Vismine Catechine B. Stains very slightly, Friet. Brown 60. Stains about 6% afcotton depre

6/12/28. Aniline Black on Cotton-Celonese Fabric. White miles and the 5 parts Dipheny Black Base F (Sen. Ugs.) 5 " amiling dil 10 " Lachie Acid 50% 30 " acetic acit 50% 20 " Methylated Spirits (Ethyl alcoled). Liquor B. 5 parts al ll 520 tw. 5 " Cras 520tw. 4 " Cu Clz Cryp. 6 " Maclo3 23.6 11 7/20 100 " Tum tragacanth 1/100 When ready to use mix one of A to two of \$5 and strain. a liging is red and B is green. The mixture gives a blushing The cloth was padded through the solution, steamed in a steaming vitamaliphoto.com

for at 100°C. far 5 minutes, soaped in a soap solution containing I growns of soap per 800 ces. He far 3/4 hour, washed and dried.

The Alykeny Black Base is dee

in the ariline six by stightly warming.

of the metals on such great Wellest of your form on felta proper ( Alle 47 - 4 pft with bally well was I have Takes Periode to you and the proper add to buy - The your yearing to of the cary gessive to street plate of Phs. and phin appropriately Itep Two, add 189140Ht this caree go silvery fire, the operate the total HARD STREET WHERE THE MAN AGAIN. HOUTENATE HING - AFER TENHANGE

Vibrancoal your in on fine the file and usalify felhate & whather solor of Sulpendos of Ca Group which will you yellow yet of places The state of the s Totale represto Bi add North und get properly white proper elisable posted of 5 prosotion local with m Tendersin Part Let got . should with acid disserve all his tog knownal fresh pot 4 get No 3501 these of metals discourt Ago with agua ugra Tette de gol in whomas blue meeting till I I was to approve ment confirm devide with porter 7 and Regionale trobagous parmore el & There the conduct cut 4 HV1 Afthe world wild water that their while of all free while Od, JOH We tendre growthen test for thy a toglobal = need = 2 tight - in 2nd reaction abyelt sincle = 2 thy touchy and the regions Colon . . . . 50 H do - decompose and add Tory 15 of and lest when som see dence white fames week but processing, the will have to make till use all kills in revoved living SD if there actions by The Difference Alle ville 1620, what pipes comming take Phay play pour the were Why tecatate and the disholored

PHECE N. day the pare 1500 FENS thodred sector == (44)= Fe 4 house with the tetrated Navil to the wilde and win extra popular . Too freamonlyeids tollo Escottie and Misself March du 6-1903-7/25ly H NO FEE PHSON DELLE WING STA and supple with the of designer \* DI CON CHELO CORPORTS THERE pass you a sime water. the said to the year when the His the secretal of the shape we have Til to firm of the state of the fame of + 5°FC #251 Devaidify and remost emps set Think felly in -

organic acteds. addental thatily & the compression CH3 COOH actic andle llagues c +13000/2250 and tell gives tell have by advanced a Los to insoluble in ace he King the colin 18CK topte indissolves & less gontly and goda ENGRICON CONTRACTOR CONTRACTOR Thetalore mit - 5 At - - - Th - - -- Cly brook ,-Tool y any merc trantomere meter maps but hite our 2 per art for acces malge add an ix coss of the Cly and the will " il was any world

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List a Labatory apparatus, 5.8 inen Test Tubes 3 0 inch 11 11\_ 1-7 " " " glass rod & glass tubing I two hole wither stopper 1 Box Filte papers

apparatus List B. I Flack. flat bottom. 1 Thistle tube 1 50cc graduate / 100 cc 11 2 Beakers Bottle small pl H2C302. 1 Bottle small NavH | Salt month + stopper 4 large let and botthes for acids, H2504 HN3, HCC, &NH40/1.

HERE LIES WILLIAM JAHNSON.

NOW HE IS NO MORE

WHAT HE THOUGHT WAS H20

WAS H2 5 04, L.H.J.

Lishuis wild to A plant 274 It the per weeks Courtie seeds (Marke-My r.Co wodersfram) as sent to B plant no mis x 1016 = dina. Reend this figure and charge nearest whole dow! On nell Latel always the Laction. Works not on aguiretion. Send to be plant flow tolant Morins ( John & Lewis )

SULPHURIC WATER I WATER 5° Tw 5° Tw Y TO PLANT A FIEACHING X MERC 660BE CHEMIC H, SO, GEN STORES CHEMIC 17°TW) \* DRAIN B.D.A. (U.S.A.) 1.5° 70 TO PLANT A

WASHING C PLANT PITT B.D.A. (U.S.A.)

